**Cellular Respiration Objectives**

1. 2 kinds of cellular respiration aerobic vs. anaerobic
2. 3 steps of aerobic cellular respiration
3. write the formula for aerobic cellular respiration
4. Where is the O2 in the formula used?
5. Where do the H2O and CO2 in the formula come from?
6. Location of glycolysis
7. Definition of glycolysis
8. Why do we need glycolysis?
9. What are the products of glycolysis:
10. Is oxygen required for glycolysis?
11. pyruvic acid & makes CO2 & acetyl CoA
12. Where does the Kreb’s cycle take place?
13. What is another name for the Kreb’s cycle?
14. What is needed to run the Kreb’s cycle?
15. What are the products of the Kreb’s cycle?
16. Name the 2 electron & hydrogen carrier molecules.
17. Where do the 2 electron & hydrogen carrier molecules deliver their

electron & hydrogen ions?

1. Where is the electron transport chain?
2. What happens to electrons on the electron transport chain?
3. How is ATP made by the electron transport chain?
4. What is the final electron acceptor of the electron transport chain?
5. What are the products of the electron transport chain?
6. What are the 2 types of fermentation? what are the products of each type?
7. Know some organisms that do each type. Know 2 foods made by each type.
8. After glycolysis, how many ATP are formed by fermentation?

**Photosynthesis Objective List**

1. autotrophs and heterotrophs
2. What is ATP and ADP reaction, purpose, hydrolysis/ dehydration synthesis rxn.
3. Definition of Photosynthesis
4. Write the photosynthesis equation.
5. Melvin Calvin
6. chlorophyll A and other types
7. Wavelengths of light absorption and colors reflected by chlorophyll.
8. Know the chloroplast diagram.
9. Know the inputs and outputs of both reactions of photosynthesis.
10. Know what PGAL, RuBP, and Rubisco.
11. proper conditions for photosynthesis
12. C3, CAM, and C4 Pathway, examples.